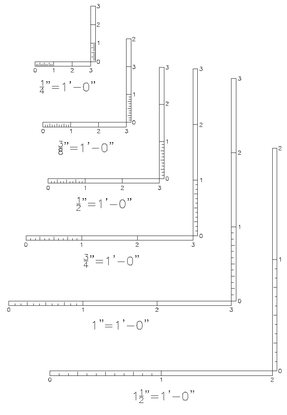
NOAA
S 222

GENERAL NOTES

1. SEE REF 1 FOR STRUCTURAL DETAILS AND ADDITIONAL NOTES.
2. (A,1) SEE REF 4 FOR LIST OF NAVIGATION LIGHTS AND MODEL NUMBERS
3. (A,1) SEE REFS 5, 6, 7 & 8 FOR ADDITIONAL INFORMATION.
4. NAVIGATION LIGHT SHILDS ARE TO BE PAINTED FLAT BLACK.
5. ALL SNIPES TO BE 1" X 45° UNLESS NOTED OTHERWISE.

PARTS LIST

ITEM NO	QTY	SIZE	DESCRIPTION	MATERIAL	SPEC NO.	PART NO.	REMARKS	UNIT WT LBS
(D,1) 4-P	592	SQ FT	PLATE 10.2# (1/4")	STEEL	A-36			10.2
8-P	3		PLATE 20.4# (1/2")					20.4
(D,1) 3-P	1		PLATE 7.65# (3/16")					7.65
1	65	LF	FLATBAR 2" X 3/8"	STEEL	A-36			2.6
2	20		3" X 1/4"					2.6
3	72		5" X 1/4"					4.3
4	16		6" X 5/16"					6.4
5	12	EA	ELBOW, 45°, 1-1/4", L.R. BW		A-234			.4
6	12		90°					.6
7	215	LF	PIPE, 1-1/4" SCH 80		A-53			2.3
8	28		3"					10.3
9	20		4"					15
10	4		6"					28.6
11	81		ANGLE 3" X 2" X 1/4"		A-36			4.1
12	35		5" X 3" X 1/4"					6.6
13	35		SQUARE BAR 3/4"					1.9
14	16	EA	BOLT, HEX HD 1/2-13UNC-2A		COML		1-1/2" LG	
15	6		NUT, SLF LKG 1/2-13UNC-2B					
16	16		WASHER, FLAT 1/2"					
17	2		FLANGE, 4", 125# S.O.; F.F.		A-181			13
18	1		SCUTTLE, 20" FLUSH	GALV	COML	MODEL 20	FREEMAN MARINE, W/STL RING & UNDERSIDE ESCAPE WHEEL	41
19	3	LF	ROUND BAR 3/8" DIA	STL	A-36			.37
20	2	EA	CLEAT 8"	GALV	COML	689921	DONOVAN OR EQ CAT 1989 5/4 PG 389	
21	4		SHACKLE, 1/2" SNAP	SST		3913T54	MCMASTER/CARR OR EQ	
22	20		THIMBLE, 3/8"	GALV		615495	DONOVAN OR EQ CAT 1989 5/12 PG 426	
(C,4) 23	9		3" SINGLE BLOCK			618580	DONOVAN OR EQ CAT 1989 8/12 PG 559	
24	AR		SNAP HOOK, QUICK ACTING	SST		3908T4	MCMASTER/CARR OR EQ CAT 95 PG 834	
25	AR		RING,1-1/8"ID X 3/16"DIA ROD					
26	4		GRAB RING 3/16" DIA ROD					
27	850	LF	3/8" POLYESTER ROPE	POLY		3789T14	MCMASTER/CARR OR EQ CAT 95 PG 588	
28	8	EA	ROUND BAR 1/2" DIA	STL	A-36			.67
29	11		SWIVEL 3/8" LINK & JAW	GALV	COML	3553T18	MCMASTER/CARR OR EQ CAT 95 PG 516	
30	4		TURNBUCKLE 1/2" JAW & JAW			3001T34	MCMASTER/CARR OR EQ CAT 95 PG 445	
32	7		SHACKLE, 1/2" ANCHOR	GALV	COML	3558T49	MCMASTER/CARR OR EQ CAT 95 PG 530	
33	82	LF	FLG PL 10" X 3" X 1/4"	STL	A-36			11.03
(D,2)								
35	4	LF	FLG PL 9" X 3" X 1/4"	STL	A-36			10.2
36	64	LF	FLATBAR 8" X 3/16"					8.5
(D,1) 37	1.5	LF	PIPE, 2" SCH 40	STEEL	A-53			5.02
38	2	EA	COUPLING 1", SCH 80		A-105			
39	1	LF	PIPE, 1-1/4", SCH 40		A-53			2.27
40	2	EA	COPULING, 1-1/4", SCH 80		A-105		THREADED	
41	5	LF	PIPE, 3/4", SCH 40		A-53			1.13
42	1	EA	COUPLING, 3/4", THD		A-105			
43	7	LF	PIPE, 1-1/2", SCH 40		A-53			2.72
44	4.5	LF	PIPE, 1", SCH 40		A-53			1.68



6	MISC DETAILS	(D,1)
5	YARDARM & DRESSING LINES	
4	MISC SECTIONS & PLAN VIEWS	
3	MISC SECTIONS & PLAN VIEWS	
2	ELEVATIONS	
1	TITLE SHEET	

INDEX – MAIN MAST (170-6634908)

REVISIONS

REV	SHT	ZONE	ITEM	DESCRIPTION	DATE	APPD
A	1	8-C	1	INCORP PRN A-1	10/19/89	RF
	1	2-B				
	1	17-C				
	2	9-F	2	INCORP PRN A-2	11/30/89	RF
	2	10-E				
	2	13-E				
B	ALL	ALL	1	DRAWING COMPLETELY REDISIGNED AND REDRAWN	12/19/90	LMC /JM
C	5	39-A,D	1	OUTBD PROFILE & DET 38-D: RELOC AFT DRESSING LINE PADEYE FROM THE ENSIGN STAFF TO THE MISSION BOAT CRADLE FDN ON THE 01 LVL @ FR 89 & CL VESSEL.	1/4/91	LMC /JM
	5	35-C		ADDED DET 35-C		
	1	2-C	3	ADDED REF 12		
	1	5-D	4	PARTS LIST: ADDED QTY TO ITEM 23.		
	1	8-C	1	ITEM 1-4 PER ECP 019		
D	VAR	VAR	1	INCORPORATED PRN 1.	2/6/91	COA /JM
	VAR	VAR	2	INCORPORATED PRN 2.		
	5	43-E	3	SHORTENED 1" DIA PIPE (ITEM 44) DETAIL 43-D PER DEVELOP.		
	VAR	VAR	4	ADDED 3-P CAP PLATES TO DET.43-D, 45-D,47-D & PARTS LIST PER DEVELOP		
E	1	1-A	1	ADDED ABBREVIATED TITLE TO TITLE BLOCK.	7/15/91 7/28/91	JRMc JM
	VAR	VAR	2	CHANGED SEAM LOCATION TO MAST ON EL 10-A, 18-A, PLAN 20-E, 22-A, 22-C & 22-E; ITEM 1&2 PER NAVY LETTER SER 155.5/T-AGS/0269 DATED 26 FEB 1991		
	VAR	VAR	3	INCORP PRN NO. 3.		
F	ALL	ALL	1	DRAWING PUT INTO CAD FORMAT	5/20/04	

REFERENCES

NO	TITLE	DRAWING NO
1	STRL STDS	101-6634906
2	STRL MOD ADDY NO 15	101-6634874
3	STRL MOD ASSY NO 16	101-6634875
4	NAVIGATION LIGHTING SYSTEM	422-6634697
5	ANTENNA ARRANGEMENT	405-6634712
6	MASTS, JACKSTAFFS & ENSIGN STAFFS	170-6634883
7	ELEC NAV SYS ELE WRG DIAGRAM	423-6634720
8	WINDSPEED/DIRECTION SYS ELE WRG DIAG	494-6634693
9	BONDING, GROUNDING & METHODS	406-6634696
10	SIGNAL HALYARD & DRESSING LINES	304-3184208
11	LIFELINES, HANDRAILS & STANCHIONS	612-6634889
12	BOAT HANDLING & STOWAGE	583-6634886
13	DOORS, HATCHES, WINDOWS & AIRPORTS	625-6634893

(A,1) (A,1) (A,1) (A,1) (A,1) (A,2) (C,3) (E,3)

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
OFFICE OF MARINE & AVIATION OPERATIONS

Seaworthy Systems, Inc.
P.O. BOX 985
ESSEX, CT 06426
TEL: (860) 767-9061

CONTRACT #
50ABNA000032
TAR-SSI-047(04)

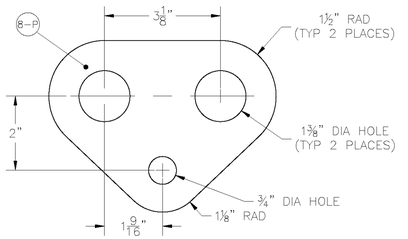
DSGN 12/19/90 LMc
DWN 5/17/04 JEK
CHK -/-/-- _
CHK -/-/-- _
_
NOAA APPROVAL

NOAA SHIP THOMAS JEFFERSON

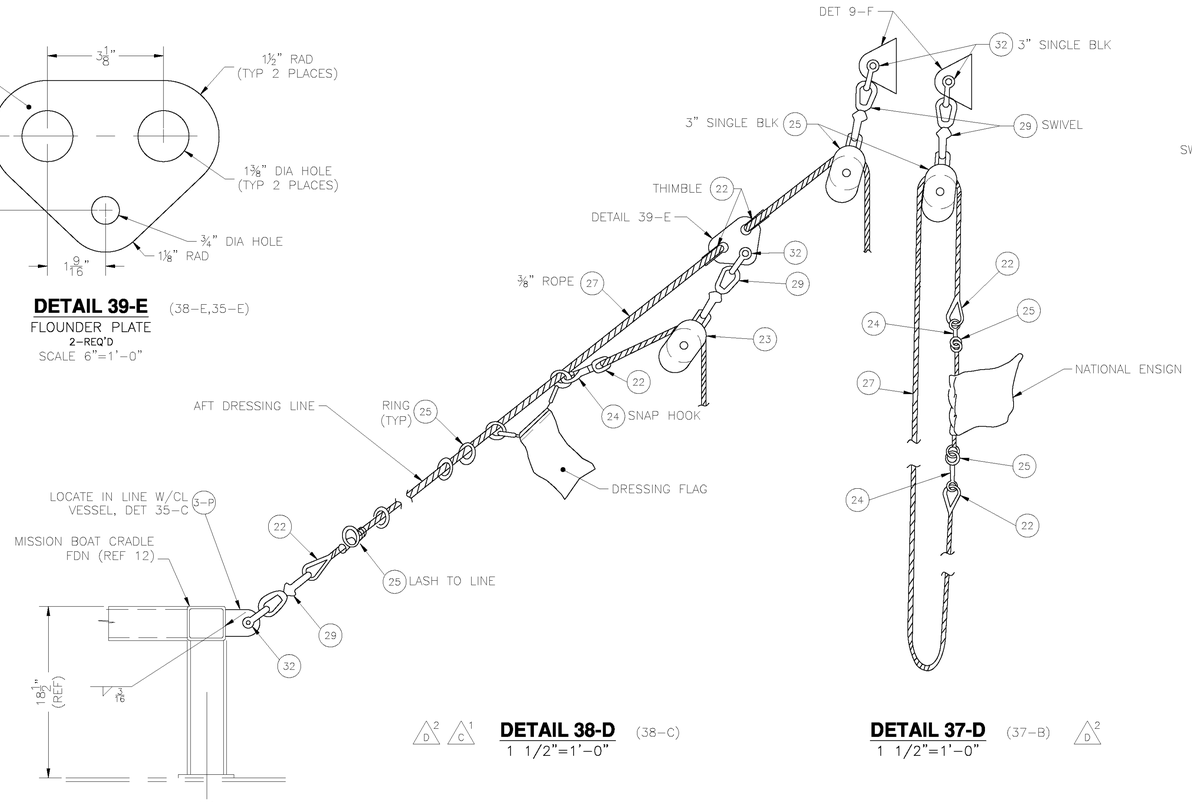
MAIN MAST
ARRANGEMENT & DETAILS

SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	170-6634908	F

SCALE: AS SHOWN | CAD FILENAME 6634908-F | SHT 1 OF 6

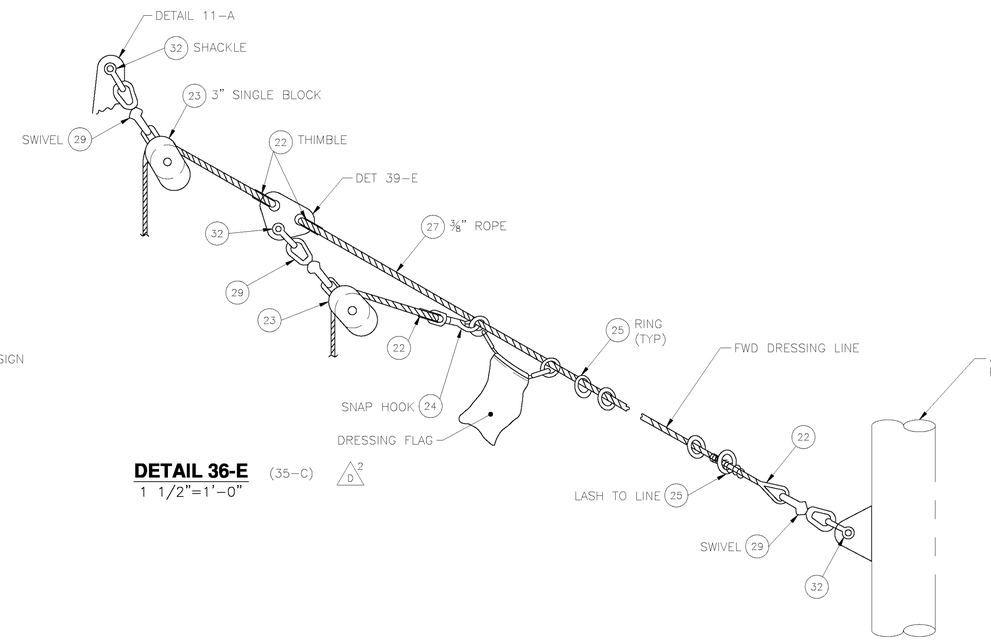


DETAIL 39-E (38-E,35-E)
FLOUNDER PLATE
2-REQ'D
SCALE 6"=1'-0"

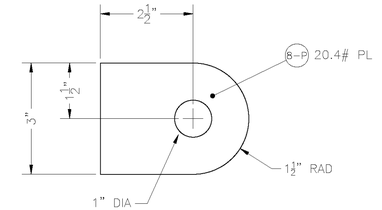


DETAIL 38-D (38-C)
1 1/2"=1'-0"

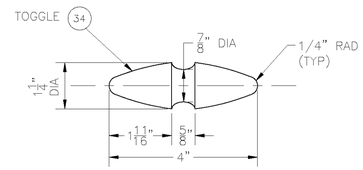
DETAIL 37-D (37-B)
1 1/2"=1'-0"



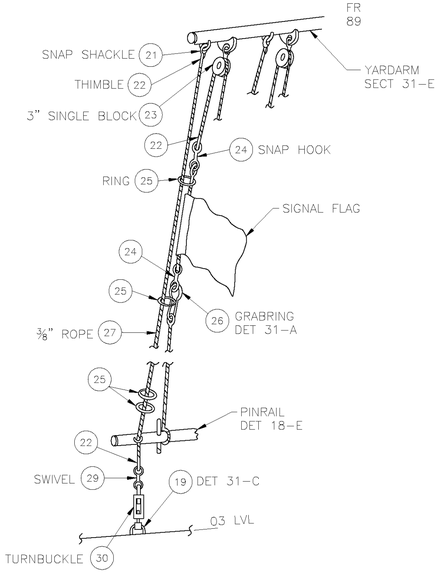
DETAIL 36-E (35-C)
1 1/2"=1'-0"



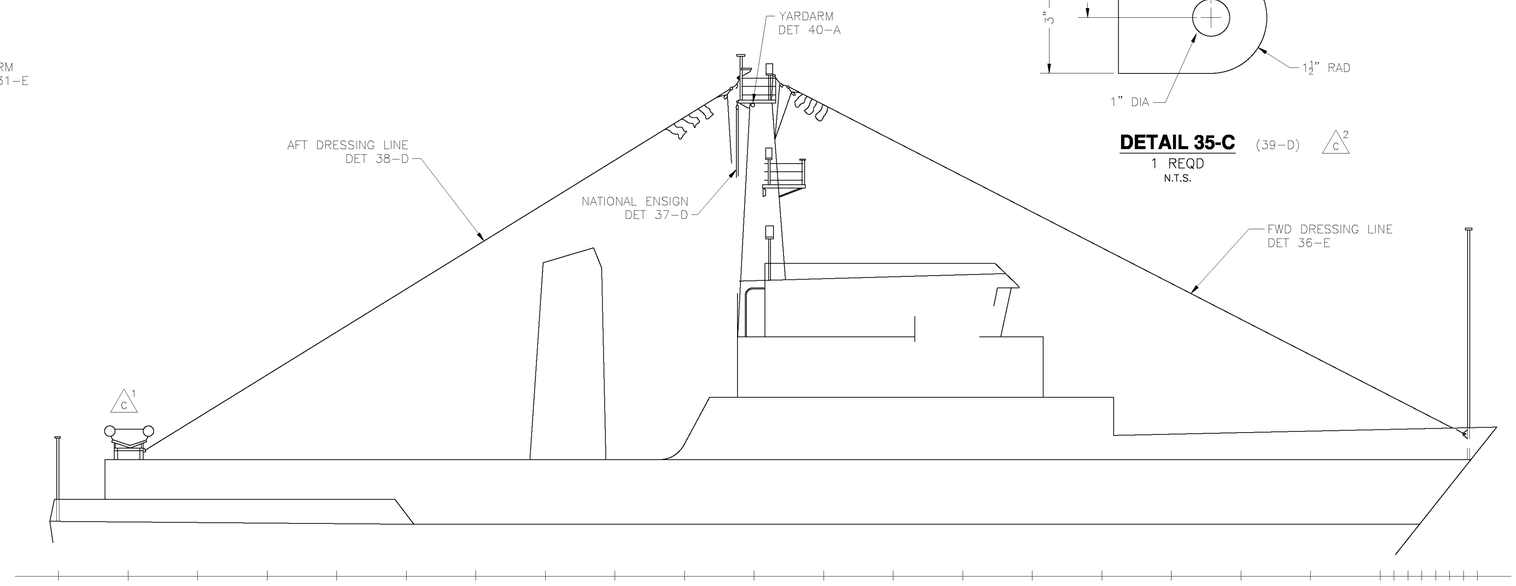
DETAIL 35-C (39-D)
1 REQD
N.T.S.



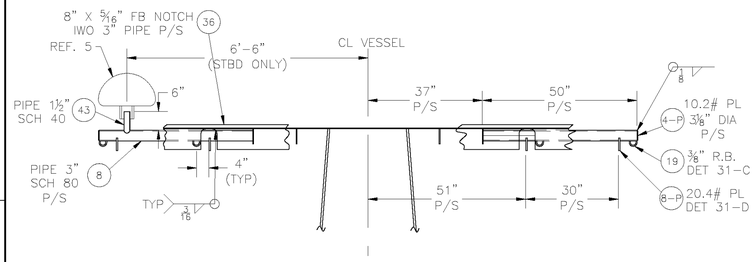
DETAIL 33-C (35-E)
5 REQD
N.T.S.



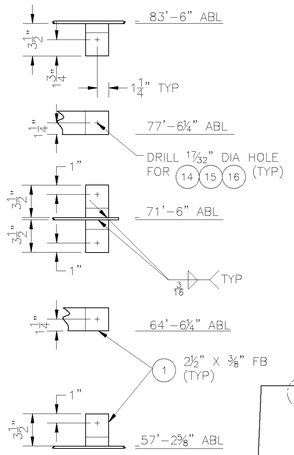
DETAIL 40-A
SIGNAL HALYARD
STBD SHN – PORT SIMILAR
LKG AFT
NTS


YARDARM DET 40-A
AFT DRESSING LINE DET 38-D
NATIONAL ENSIGN DET 37-D
FWD DRESSING LINE DET 36-E
95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 B D F

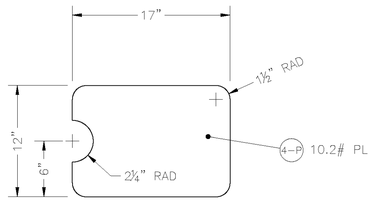
PREPARED BY: Seaworthy Systems, Inc. ESSEX, CT 06426 TEL: (860) 767-9061	SIZE D	CAGE CODE 0YLJ5	NOAA DRAWING NUMBER 170-6634908	REV F
	SCALE: AS SHOWN	CAD FILENAME6634908-F.dwg	SHT 5 OF 6	



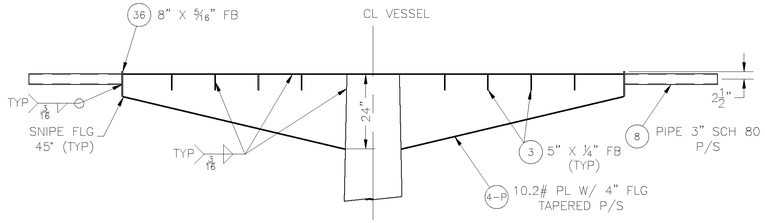
SECTION 31-E (15-F) △D1
1/2"=1'-0"



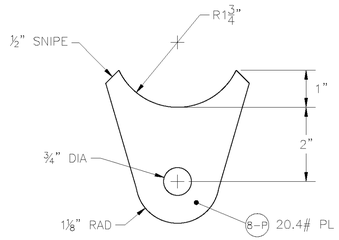
DETAIL 30-D
1 1/2"=1'-0"



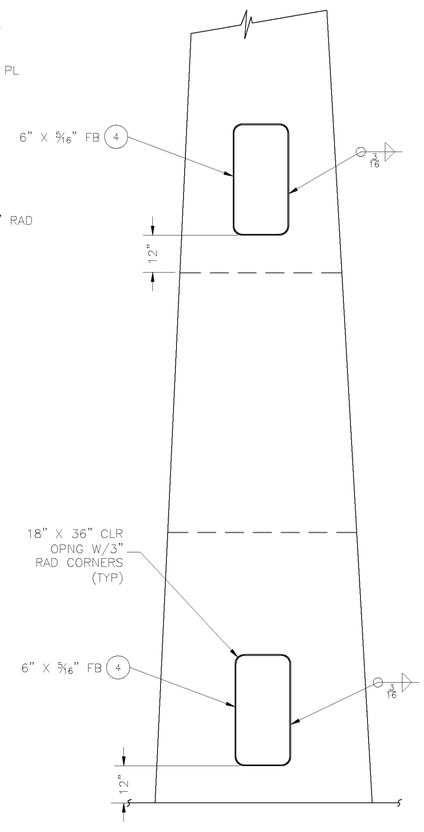
DETAIL 28-E (10-E)
1 1/2"=1'-0"



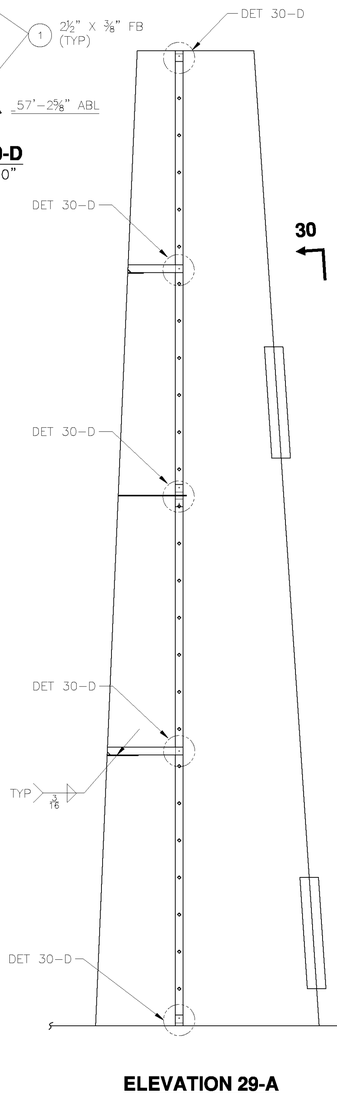
SECTION 26-E (15-F) △D1
LKG AFT
1/2"=1'-0"



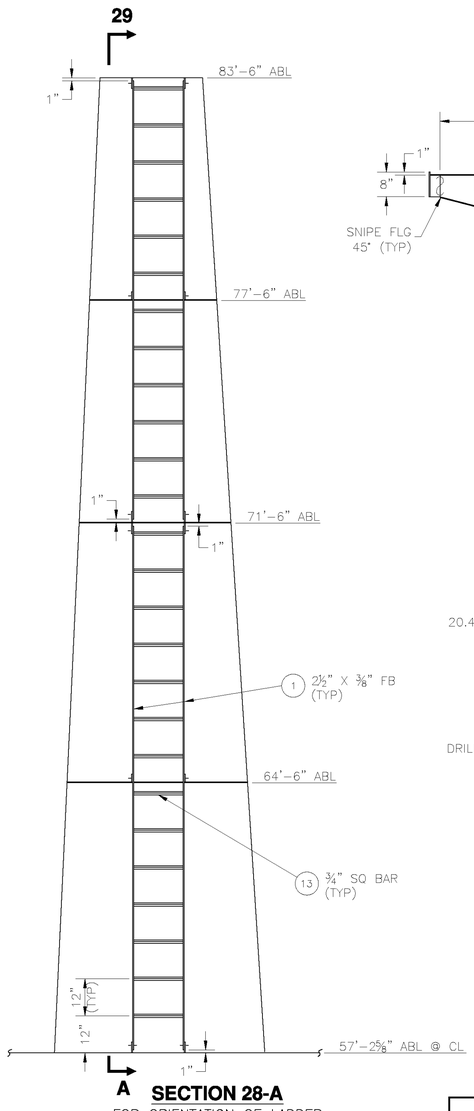
DETAIL 31-D (31-E)
4 REQD
6"=1'-0"



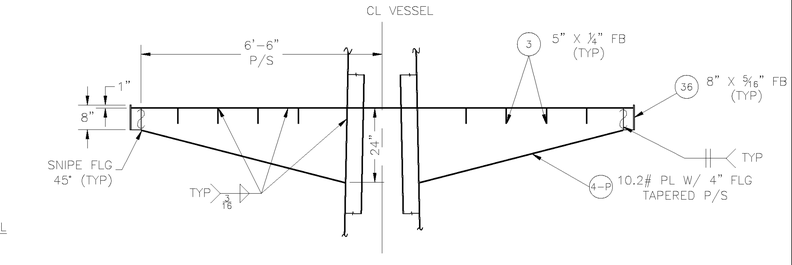
SECTION 30-A
1/2"=1'-0"



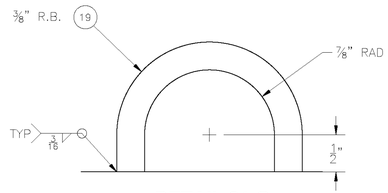
ELEVATION 29-A
1/2"=1'-0"



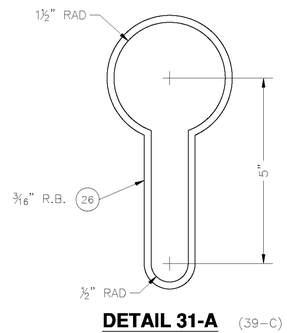
SECTION 28-A
FOR ORIENTATION OF LADDER
SEE PLAN 22-E
½"=1'-0"



SECTION 26-D (15-C)
LKG AFT
1/2"=1'-0"



DETAIL 31-C (30-E)
12 REQD
FULL SCALE



DETAIL 31-A (39-C)
4 REQD
6"=1'-0"

DETAIL 26-B (9-D)
12X RADAR MOUNTING PL
6"=1'-0"

PREPARED BY:
Seaworthy Systems, Inc.
ESSEX, CT 06426
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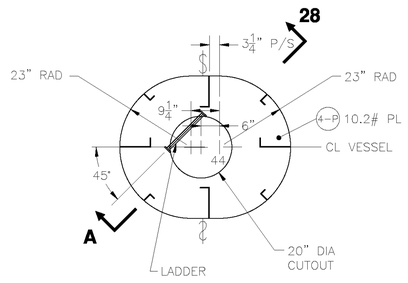
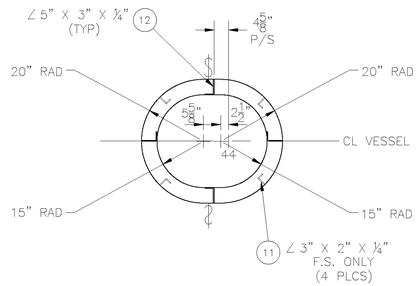
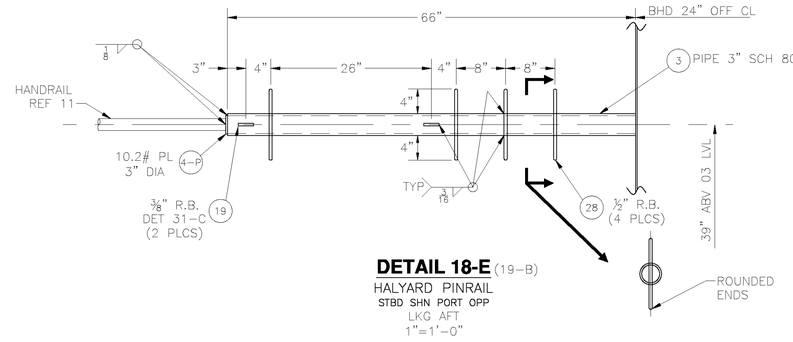
SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	170-6634908	F
SCALE: AS SHOWN	CAD FILENAME6634908-F.dwg		SHT 4 OF 6



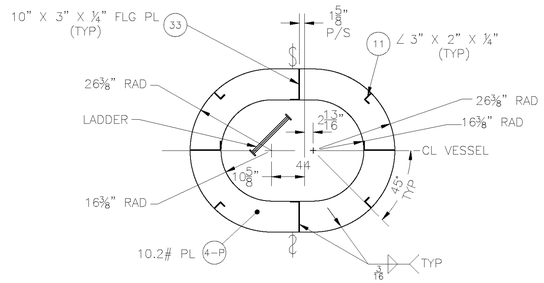
E2 **PLAN 22-E** (17-C)
71'-6" ABL
FOR INFO NOT SHN SEE PLAN 22-C
½"=1'-0"



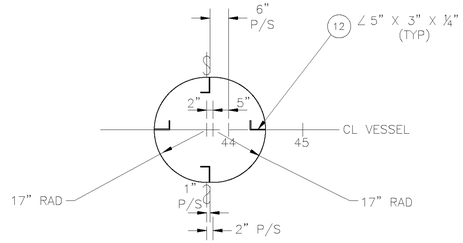
E2 **PLAN 20-E** (17-D)
77'-6" ABL
FOR INFO NOT SHN SEE PLAN 22-C
½"=1'-0"



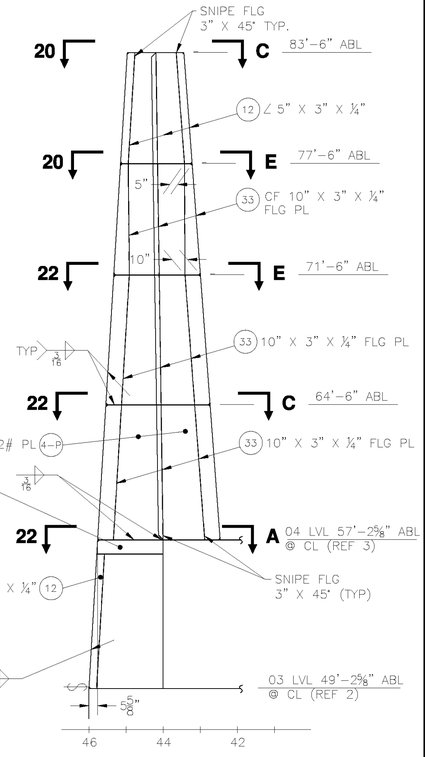
DETAIL 18-E (19-B)
HALYARD PINRAIL
STBD SHN PORT OPP
LKG AFT
1"=1'-0"



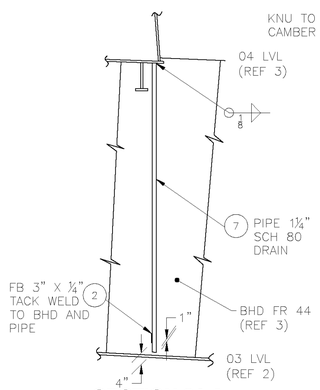
E2 **PLAN 22-C** (17-C)
64'-6" ABL
1/2"=1'-0"



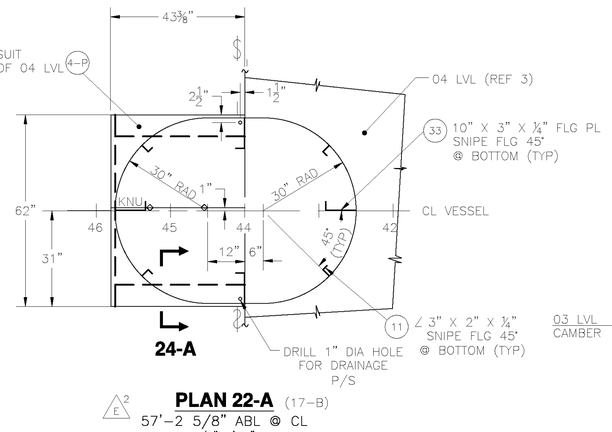
PLAN 20-C (17-D)
83'-6" ABL
1/2"=1'-0"



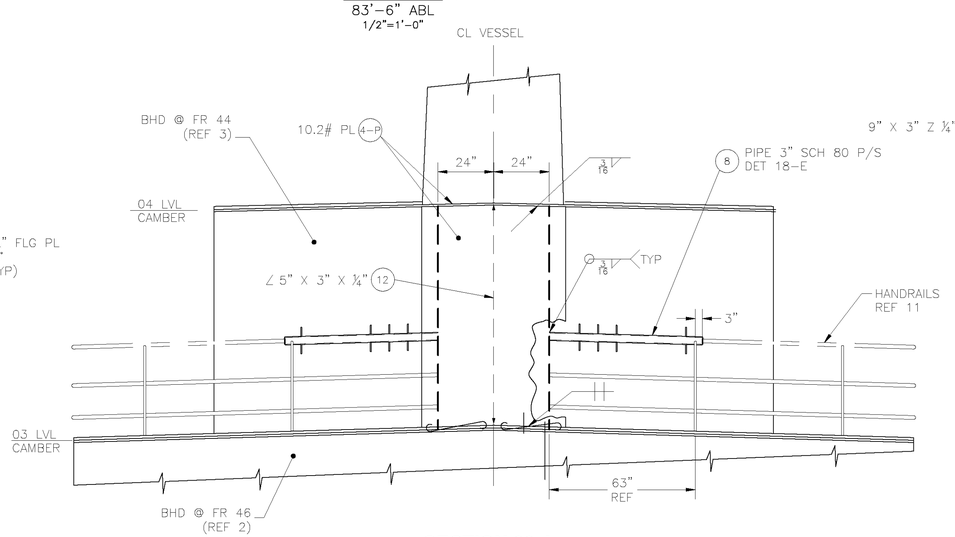
E2 **ELEVATION 18-A** (13-E)
PLATFORMS NOT SHN FOR CLARITY
LKG TO PORT
¼"=1'-0"



SECTION 24-A (22-A)
STBD SHN PORT OPP
LKG FWD
½"=1'-0"



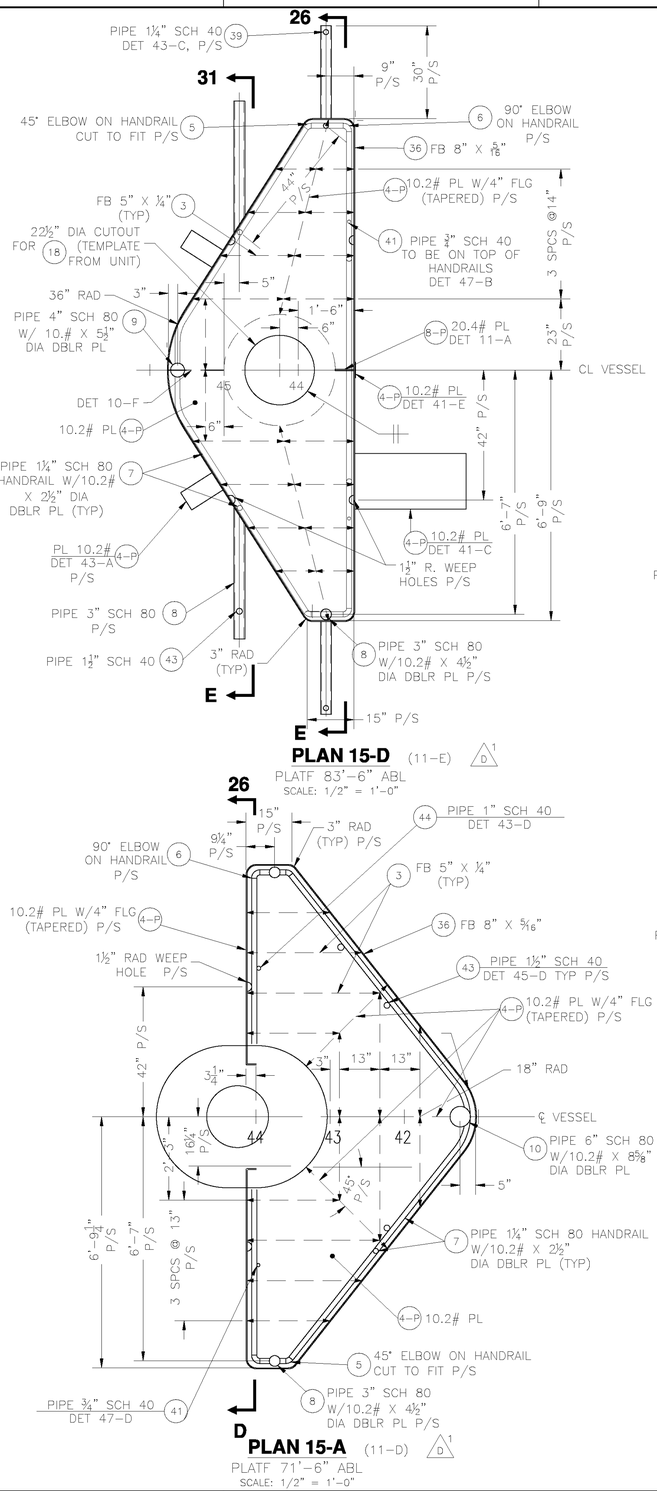
E2 **PLAN 22-A** (17-B)
57'-2 5/8" ABL @ CL
1/2"=1'-0"



SECTION 20-A (11-C)
LKG FWD
3/8"=1'-0"

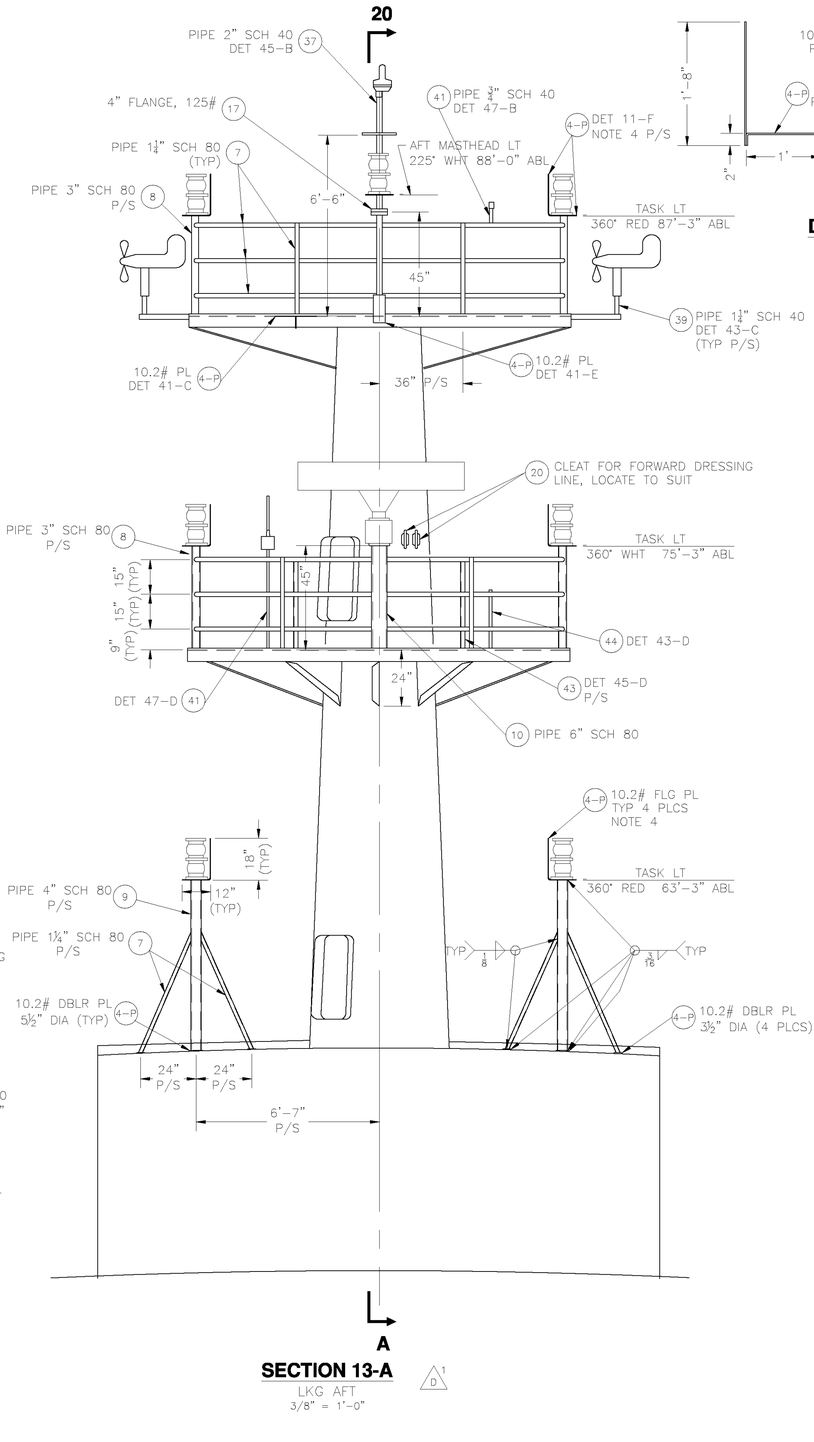
PREPARED BY:
Seaworthy Systems, Inc.
ESSEX, CT 06426
TEL: (860) 767-9061

SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	170-6634908	F
SCALE: AS SHOWN	CAD FILENAME6634908-F.dwg	SHT 3 OF 6	

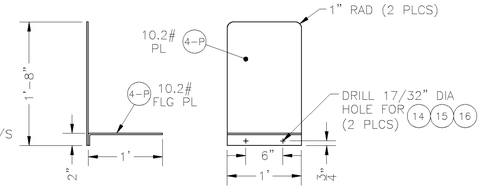

26
31
PIPE 1¼" SCH 40 (39) DET 43-C, P/S
9" P/S
30" P/S
45° ELBOW ON HANDRAIL CUT TO FIT P/S (5)
90° ELBOW ON HANDRAIL P/S (6)
FB 8" X 5/16" (36)
10.2# PL W/4" FLG (TAPERED) P/S (4-P)
PIPE ¾" SCH 40 TO BE ON TOP OF HANDRAILS DET 47-B (41)
44" P/S
FB 5" X ¼" (TYP) (3)
22½" DIA CUTOUT FOR (18) (TEMPLATE FROM UNIT)
3 SPCS @ 14" P/S
5"
36" RAD
3"
1'-6"
6"
PIPE 4" SCH 80 W/ 10.2# X 5½" DIA DBLR PL (9)
20.4# PL DET 11-A (8-P)
23" P/S
CL VESSEL
45
44
DET 10-F
10.2# PL (4-P)
10.2# PL DET 41-E (4-P)
42" P/S
6"
PIPE 1¼" SCH 80 HANDRAIL W/10.2# X 2½" DIA DBLR PL (TYP) (7)
6'-7" P/S
6'-9" P/S
PL 10.2# DET 43-A P/S (4-P)
10.2# PL DET 41-C (4-P)
1½" R. WEEP HOLES P/S
PIPE 3" SCH 80 P/S (8)
PIPE 1½" SCH 40 (43)
3" RAD (TYP)
PIPE 3" SCH 80 W/10.2# X 4½" DIA DBLR PL P/S (8)
15" P/S
E
E

PLAN 15-D (11-E) △D1
PLATF 83'-6" ABL
SCALE: 1/2" = 1'-0"

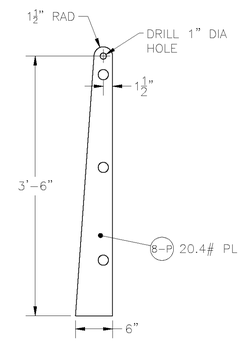
PLAN 15-D (11-D)
PLATF 71'-6" ABL
SCALE: 1/2" = 1'-0"


20
PIPE 2" SCH 40 DET 45-B (37)
4" FLANGE, 125# (17)
PIPE ¾" SCH 40 DET 47-B (41)
AFT MASTHEAD LT 225° WHT 88'-0" ABL
DET 11-F NOTE 4 P/S (4-P)
PIPE 1¼" SCH 80 (TYP) (7)
6'-6"
PIPE 3" SCH 80 P/S (8)
TASK LT 360° RED 87'-3" ABL
45"
PIPE 1½" SCH 40 DET 43-C (TYP P/S) (39)
10.2# PL DET 41-C (4-P)
10.2# PL DET 41-E (4-P)
36" P/S
CLEAT FOR FORWARD DRESSING LINE, LOCATE TO SUIT (20)
PIPE 3" SCH 80 P/S (8)
TASK LT 360° WHT 75'-3" ABL
45"
15" (TYP)
15" (TYP)
9" (TYP)
DET 43-D (44)
24"
DET 47-D (41)
DET 45-D P/S (43)
PIPE 6" SCH 80 (10)
10.2# FLG PL TYP 4 PLCS NOTE 4 (4-P)
18" (TYP)
12" (TYP)
PIPE 4" SCH 80 P/S (9)
PIPE 1¼" SCH 80 P/S (7)
TASK LT 360° RED 63'-3" ABL
TYP
⅜
TYP
3/16
10.2# DBLR PL 5½" DIA (TYP) (4-P)
10.2# DBLR PL 3½" DIA (4 PLCS) (4-P)
24" P/S
24" P/S
6'-7" P/S
A
A

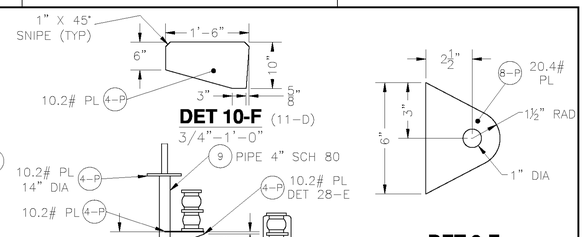
SECTION 13-A △D1
LKG AFT
3/8" = 1'-0"

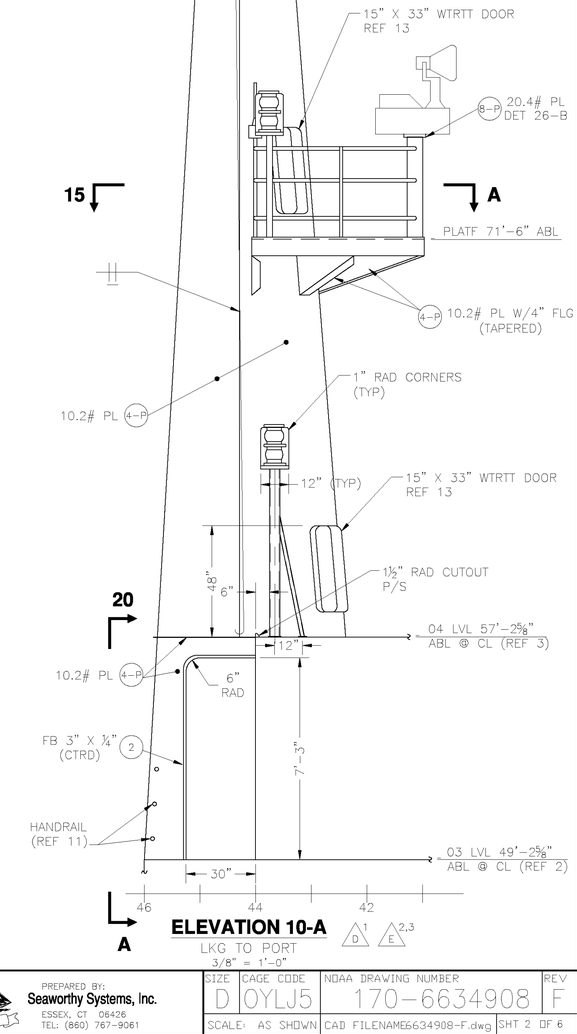


DET 11-F (12-E)
1"-1'-0"



DETAIL 11-A (10-E)
1"=1'-0"





ELEVATION 10-A △D1 △E2,3
LKG TO PORT
3/8" = 1'-0"

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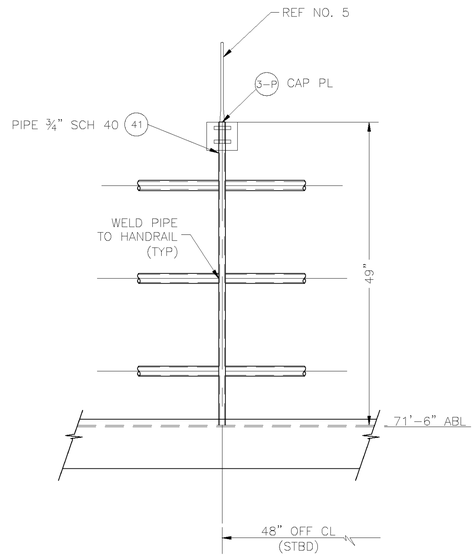
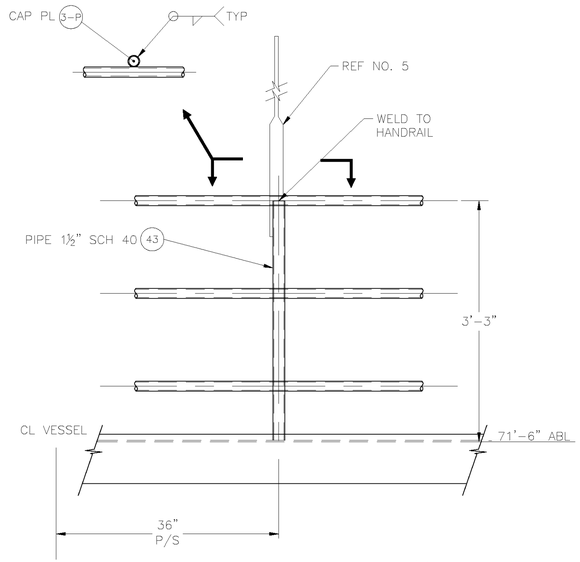
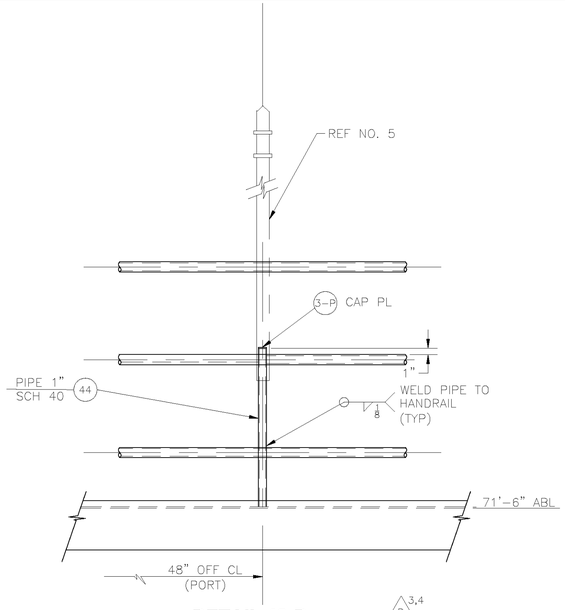
	SCALE: AS SHOWN	CAD FILENAME: 6634908-F.dwg	SHT 2 OF 6



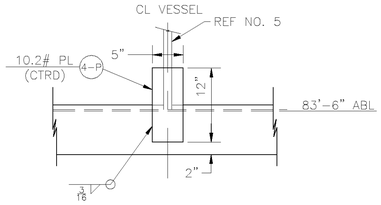
DETAIL 47-D (15-A) △D 4



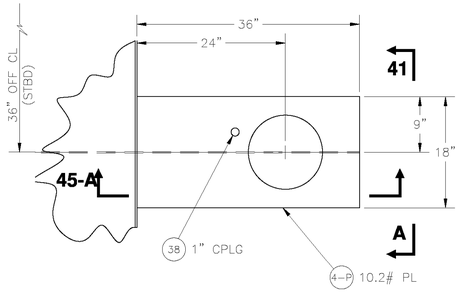
DETAIL 45-D (15-A) △D 4



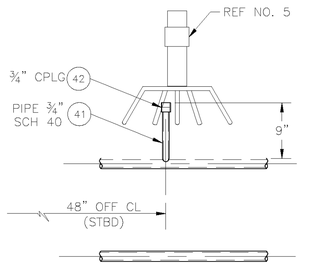
DETAIL 43-D (15-A) △D 3,4

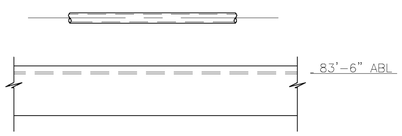


DETAIL 41-E (15-E)

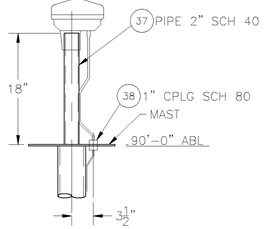


DETAIL 41-C (13-D) (15-D)

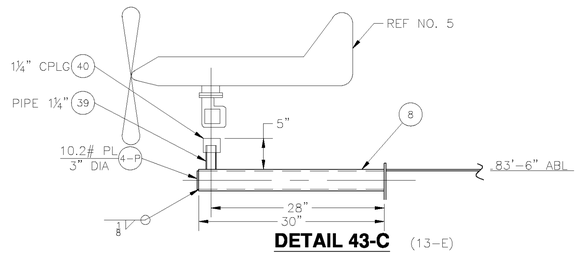




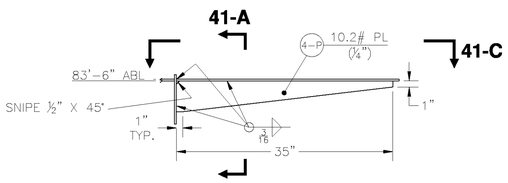
DETAIL 47-B (15-D)



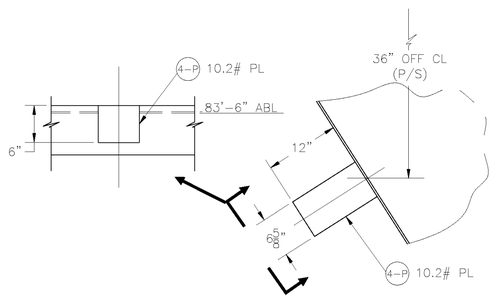
DETAIL 45-B (13-E)



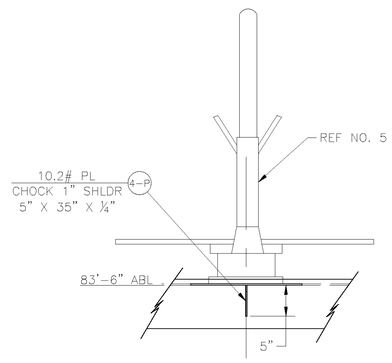
DETAIL 43-C (13-E)



SECTION 45-A (41-A)



DETAIL 43-A (15-D)



SECTION 41-A (41-C)

PREPARED BY: Seaworthy Systems, Inc. ESSEX, CT 06426 TEL: (860) 767-9061	SIZE D	CAGE CODE 0YLJ5	NOAA DRAWING NUMBER 170-6634908	REV F
	SCALE: AS SHOWN	CAD FILENAME6634908-F.dwg	SHT 6 OF 6	